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Express Mail No.: EL603009481US Attorney Docket No.: 2003080-0071 Date Filed: December 4, 2001

UTILITY PATENT APPLICATION TRANSMITTAL

(for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Dear Sir:

Please find enclosed a patent application and papers as follows for:

Inventor(s):

Given Name (first and middle)	Family Name or Surname	Residence (City and State or Foreign Country)				
Given Name (mst and middle)	I diffity I tuffe of Surrains					
Samuel J.	Danishefsky	Englewood, NJ				
Peter	Bertinato	Old Lyme, CT				
Dai-Shi	Su	New York, NY				
Dongfang	Meng	New York, NY				
Ting-Chao	Chou	Paramus, NJ				
Ted	Kamenecka	New York, NY				
Erik J.	Sorensen	San Diego, CA				
Aaron	Balog	New York, NY				
Kenneth A.	Savin	New York, NY				

Title of the Invention: Synthesis of Epothilones, Intermediates Thereto, Analogues and Uses **Thereof**

A) APPLICATION ELEMENTS:

- 1)

 Fee Transmittal Form (original and duplicate submitted for fee processing)
- 2) Applicant Claims Small Entity Status (see 37 C.F.R. § 1.27)
 - a) Statement Verifying Small Entity Status (optional)



3) Specification	TOTAL PAGES: 112 (87 pp. description; 24 pp. claims; 1 pg. abstract)
 ☑ Descriptive Title of the Invention ☑ Cross References to Related Application ☑ Statement Regarding Federally Sponsor ☑ Reference to sequence listing, a table, or ☑ Background of the Invention ☑ Summary of the Invention ☑ Description of the Drawing (if filed) ☑ Detailed Description of the Invention ☑ Claim(s) ☑ Abstract of the Invention 	ns (if applicable) red R & D (if applicable)
4) 🛛 Drawing(s) (35 U.S.C. § 113)	TOTAL SHEETS: <u>59</u>
a)	TOTAL SHEETS: 76
5) 🛛 Oath or Declaration	TOTAL PAGES: 8
a)	
b) 🗵 Copy from a prior application (37 C continuation/divisional application	* ' ' '
i) Deletion of inventor(s): Signed St in the prior application, see 37 C.I	
c) Unexecuted	
6) Application Data Sheet. See 37 C.F.R. § 1	.76.
7) CD-ROM or CD-R in duplicate, large tal (Appendix)	ole or Computer Program
8) Nucleotide and/or Amino Acid Sequence necessary)	Submission (if applicable, all are
a) Computer Readable Form (CRF)	
b) Specification Sequence Listing on:	
i) CD-ROM or CD-R (2 copies); or
ii) 🔲 Paper	
c) Statements verifying identity of above	ve copies

9) 🛛 Assignment Paper	rs (cover sheet & document(s	3))							
10) 37 C.F.R. § 3.73(b) Statement (when there is an assignee)									
11) 🛛 Power of Attorne	11) Power of Attorney								
12) 🔲 English Translati	on Document (if applicable))							
13) 🛛 Information Disc	losure Statement (IDS)/PT	O-1449 (6 pp. total)							
14) Copies of IDS Cir	tations								
15) 🛛 Preliminary Ame	endment (11 pp. (includes n	narked-up copies))							
16) 🛭 Return Receipt P	Postcard (MPEP 503) (speci	fically itemized)							
17) Certified Copy of	f Priority Document(s) (if fo	oreign priority is claimed)							
18) X OTHER: (if appl	licable, specified below)								
Identificat	ion of Patent Under 37 CFI	R §1.607(c) (1 pg.)							
C) FOR CONTINUING APPLIC information is provided	CATIONS: (the appropriate below and in a preliminary a								
	☐ divisional	continuation-in-part (CIP)							
of prior application no.:	09/874,514								
filed:	June 5, 2001								
examiner:	T. Solola								
group/art unit:	1626								
for continuation or divis	ional applications only: Th	e entire disclosure of the prior							

B) ACCOMPANYING APPLICATION PARTS:

for continuation or divisional applications only: The entire disclosure of the prior application, from which an oath or declaration is supplied as detailed above, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.

D.) PRIORITY CLAIM(S):

This application claims the benefit under 35 U.S.C. § 120 of any United States application(s) or PCT international application(s) designating the United States of America listed below:

Application Serial No.

Filing date

Status (patented, pending, abandoned)

09/874,514

June 5, 2001

Pending

This application claims the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Application Serial No.

Filing date

Status (pending, expired, abandoned)

E) METHOD OF PAYMENT OF FILING FEES FOR THIS APPLICATION:

- ☑ Applicant claims small entity status 37 C.F.R. § 1.27.
- A check is enclosed to cover the filing fees.
- ☑ The commissioner is hereby authorized to charge filing fees or to credit any overpayment to deposit account number 03-1721.

Basic Filing Fee (Small Entity)	\$370.00
Additional Fees:	
Total Number of Claims in excess of 20: (201–20) x \$9	\$1,629.00
Number of Independent Claims in excess of 3:(25–3) x \$42	\$924.00
Multiple Dependent Claims (\$140):	<u>\$140.00</u>
Total Filing Fee:	\$3,063.00

F) CORRESPONDENCE ADDRESS:

24280

☐ Customer Bar Code Label:

PATENT TRADEMARK OFFICE

Karoline K.M. Shair, Ph.D. Choate, Hall & Stewart 53 State Street Exchange Place Boston, MA 02109 phone: (617) 248-5000 fax: (617) 248-4000

Respectfully Submitted,

Karoline K.M. Shair, Ph.D.
Registration No. 44,332

CHOATE, HALL & STEWART 53 State Street Exchange Place Boston, MA 02109 Phone: (617) 248-5000

Fax: (617) 248-4000

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PTO/SB/17 (11-01)
Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

ermation unless it displays a valid OMB control number. Under the Paperwork Reduction Act of 1995, no persons are required to re

FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

(\$) 3,063.00

	THORNE THE STATE OF THE STATE O				
Complete if Known					
Application Number					
Filing Date	December 4, 2001				
First Named Inventor	Danishefsky, et al.				
Examiner Name	T. Solola				
Group Art Unit	1626				
Attorney Docket No.	2003080-0071				

METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)							
X Check Credit card Money Other None		3. ADDITIONAL FEES							
X Deposit Account:		Large 1	Entity	Smal	l Entity	Ĺ			
Deposit Account	03-1721			Fee Code	Fee (\$)	Fee Code	Fee e (\$)	Fee Description	Fee Paid
Number				105	130	205	65	Surcharge - late filing fee or oath	
Deposit Account Name	Choate,	Hall & Stewart		127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
_		zed to: (check all that appl		139	130	139	130	Non-English specification	
	i) indicated belo) during the pendency of th		147	2,520	147	2,520	For filing a request for ex parte reexamination	
=		ow, except for the filing fe		112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
to the above ide	•			113	1.840*	113	1,840*	Requesting publication of SIR after	
		LCULATION] ''ĭ	.,0 10		.,5.0	Examiner action	
1. BASIC FIL				115	110	215	55	Extension for reply within first month	
Large Entity				116	400	216	200	Extension for reply within second month	
Fee Fee	Fee Fee	Fee Description	Fee Paid	117	920	217	460	Extension for reply within third month	
	Code (\$)			118	1,440	218	720	Extension for reply within fourth month	
101 740 106 330	201 370 206 165	Utility filing fee Design filing fee	370.00	128	1,960	228	980	Extension for reply within fifth month	
107 510	207 255	Plant filing fee		119	320	219	160	Notice of Appeal	
107 510	208 370	Reissue filing fee		120	320	220	160	Filing a brief in support of an appeal	
114 160	214 80	Provisional filing fee		121	280	221	140	Request for oral hearing	
		138	1,510	138	1,510	Petition to institute a public use proceeding			
SUBTOTAL (1) (\$)370.00		140	110	240	55	Petition to revive - unavoidable			
2. EXTRA C	LAIM FEES	FOR UTILITY AND	REISSUE	141	1,280	241	640	Petition to revive - unintentional	
		Fee from Extra Claims below	n Fee Paid	142	1,280	242	640	Utility issue fee (or reissue)	
Total Claims	201 -20*		=1,629	143	460	243	230	Design issue fee	
Independent Claims	25 - 3*	* = 22 × 42.00	= 924	144	620	244	310	Plant issue fee	
Multiple Depen	dent	140	= 140	122	130	122	130	Petitions to the Commissioner	
				123	50	123	50	Processing fee under 37 CFR 1.17(q)	
Large Entity		For Deceription		126	180	126	180	Submission of Information Disclosure Stmt	<u> </u>
Fee Fee Code (\$)	Fee Fee Code (\$)	Fee Description Claims in excess of 20		581	40	581	40	Recording each patent assignment per property (times number of properties)	
103 18 102 84	203 9 202 42	Independent claims in ea	xcess of 3	146	740	246	370	Filing a submission after final rejection	
104 280	204 140	Multiple dependent clair	n, if not paid	440	740	240	270	(37 CFR § 1 129(a))	\vdash
109 84	209 42	** Reissue independent over original patent	claims	149	740	249		For each additional invention to be examined (37 CFR § 1.129(b))	
110 18	210 9	** Reissue claims in exc		179	740	279	370	Request for Continued Examination (RCE)	
'	1	and over original pate	ent	169	900	169	900	Request for expedited examination of a design application	
SUBTOTAL (2) (\$) 2,693.00		Other fee (specify)							
**or number previously paid, if greater; For Reissues, see above			see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 0.00					

SUBMITTED BY		Complete (if applicable)				
Name (Printl Type) Karoline K.M. Shair, Ph.D.		Registration No. (Attorney/Agent) 44,332		Telephone	(617) 248-5216	
Signature	Karoline K. M	1. Sha	i V	Date	December 4, 2001	

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

ATTORNEY'S DOCKET NO.: 2003080-0071 (SK-744-CON4)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant

Danishefsky et al.

Examiner Art Unit T. Solola 1626

Serial No. Filed not yet assigned

For

December 4, 2001

Synthesis of Epothilones, Intermediates Thereto, Analogues and Uses

Thereof

BOX PATENT APPLICATION
ASSISTANT COMMISSIONER FOR PATENTS
US PATENT AND TRADEMARK OFFICE
P.O. BOX 2327
ARLINGTON, VA 22202

EXPRESS MAIL NO: EL603009481US

Sir:

IDENTIFICATION OF PATENT UNDER 37 CFR § 1.607(c)

As required by 37 CFR § 1.607(c), Applicants submit that the above-referenced application, as filed herewith on December 4, 2001, presents a claim (claim 59) that corresponds substantially to claim 1 of patent number 6,156,905, issued December 5, 2001. Applicants would like to point out that US Patent No.: 6,156,905 is being cited in the Information Disclosure Statement filed herewith and was also cited in the Information Disclosure Statements filed in the parent patent applications: 09/874,514, filed June 5, 2001, and 08/986,025, filed December 3, 1997, now U.S. Patent No. 6,242,469, issued June 5, 2001.

Please charge any fees or credit any overpayments to our Deposit Account No. 03-1721.

Respectfully submitted,

Karoline K.M. Shair, Ph.D.

Reg. No. 44,332

Choate, Hall & Stewart Exchange Place 53 State Street Boston, MA 02109 (617) 248-5000

Date: December 4, 2001

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ATTORNEY'S DOCKET NO.: 2003080-0071 (SK-744-CON4)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant

Danishefsky et al.

Examiner Art Unit T. Solola 1626

Serial No. Filed

not yet assigned December 4, 2001

For :

Synthesis of Epothilones, Intermediates Thereto, Analogues and Uses

Thereof

BOX PATENT APPLICATION
ASSISTANT COMMISSIONER FOR PATENTS
US PATENT AND TRADEMARK OFFICE
P.O. BOX 2327
ARLINGTON, VA 22202

EXPRESS MAIL NO: EL603009481US

:

STATEMENT FILED PURSUANT TO THE DUTY OF DISCLOSURE UNDER 37 CFR §§1.56, 1.97 AND 1.98

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, Applicants request consideration of this Information Disclosure Statement.

PART I: Compliance with 37 C.F.R. §1.97

- A. [X] This Information Disclosure Statement has been filed:
 - 1. [X] within three months of the filing date of the above identified U.S. Patent application other than a continued prosecution application under § 1.53(d);
 - 2. [] within three months of the filing date of the entry of the National Stage, as set forth in 37 C.F.R. §1.491, in an International application;
 - 3. [] before the mailing date of the first Office Action on the merits in the above-identified application; or
 - 4. [] before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.

No fee or certification is required.

PART II - 37 CFR § 1.98 Content of Information Disclosure Statement:

[X] Applicants hereby make of record in the above-identified application all patents, publications, applications or other information submitted for consideration by the Office listed on the attached form PTO-1449 (modified). The order of presentation of the patents, publications, applications or other information should not be construed as an indication of the importance.

Remarks

A copy of each of the above-identified U.S. and foreign patent(s), publication(s), application(s) or other information submitted is enclosed unless otherwise indicated on the attached form PTO-1449 (modified). It is respectfully requested that:

- 1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
- 2. The enclosed form PTO-1449 be signed by the Examiner to evidence that the cited information been fully considered by the Patent and Trademark Office during the examination of this application; and
- 3. The citations for the patent(s), publication(s), application(s), or other information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, Applicants make no representation that a search has been performed, of the extent of any search performed, or that more material information may not exist.

By submitting this Information Disclosure Statement, Applicants make no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

By submitting this Information Disclosure Statement, Applicants make no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by Applicants, the Examiner is urged to form his or her own conclusions regarding the relevance of the cited materials. An early and favorable action is hereby requested.

Respectfully submitted,

Karoline K. M. Shair, Ph.D.

Reg. No. 44,332

Choate, Hall & Stewart Exchange Place 53 State Street Boston, MA 02109 (617) 248-5000 Date: December 4, 2001

Date: <u>December 4, 2001</u> 3341978_1.DOC